(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 18 March 2004 (18.03.2004)

PCT

(10) International Publication Number WO 2004/023849 A1

(51) International Patent Classification⁷:

H05B 37/02

(21) International Application Number:

PCT/IB2003/003981

(22) International Filing Date:

1 September 2003 (01.09.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/408,003

4 September 2002 (04.09.2002) US

60/445,960

7 February 2003 (07.02.2003) US

- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): LING, Wang [US/US]; P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).

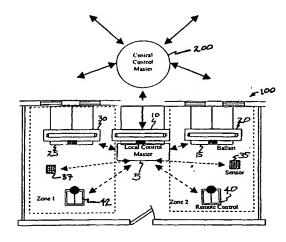
- (74) Common Representative: KONINKLLIKE PHILIPS ELECTRONICS N.V.; c/o Waxler, Aaron, P.O. Box 3001, Briarcliff Manor, NY 10510-8001 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MASTER-SLAVE ORIENTED TWO-WAY RF WIRELESS LIGHTING CONTROL SYSTEM



(57) Abstract: A lighting control system network and method of providing same including a remote control unit having a RF signal transmitter and a RF receiver and a number of lighting control units, each of the lighting control units having a RF signal transmitter, a RF receiver, and a lighting unit associated therewith. The remote control unit and the lighting control units are configured in a master-slave oriented network. One of the lighting control units is configured as a master in the network and the remaining lighting control units and the remote control unit are configured as slaves in the network. The lighting control units and the remote control units communicate bi-directionally with each other over RF wireless links. The network may include sensors for detecting an environmental or system parameter. Multiple instances of the lighting control network may be interfaced together to form a building-wide network.

